

**METHOD OF READING A CAPACITIVE SENSOR  
AND RELATED INTEGRATED CIRCUIT**

**Abstract of the Disclosure**

The method is for reading a capacitive sensor and may be implemented by a circuit for biasing and reading capacitances that includes circuits for selecting a column line and a row line, and a charge  
5 amplifier producing an output voltage representing the capacitance of the selected capacitor intercepted by the selected column and row lines. The method includes preliminarily resetting the output voltage of the charge amplifier, connecting all the deselected row and  
10 column plates of the array to a reference voltage and connecting a feedback capacitor and the selected capacitor to an inverting input of the amplifier, applying a step voltage on the capacitor that is connected to the inverting input of the amplifier, and  
15 reading the output voltage at steady-state.